I claim:

1	1.	An apparatus, comprising:
2		a hash circuit to receive first and second input values for a current hash stage
3		and to generate an output value from the current hash stage based on the
4		first and second input values;
5		a numerical sequencer coupled to the hash circuit to generate a sequence of
6		numbers during the current hash stage and to provide at least a portion
7		of a current one of the sequence of numbers as the first input value for a
8		subsequent hash stage;
9		a feedback circuit coupled to the hash circuit to provide at least a portion of the
10		output value as the second input value for the subsequent hash stage; and
11		a control circuit coupled to the numerical sequencer to stop generating the
12		sequence of numbers upon an occurrence of a first predetermined event
13		and to resume generating the sequence of numbers upon an occurrence
14		of a second predetermined event.
1	2.	The apparatus of claim 1, wherein:
2		the hash circuit is to receive the first and second input values at a beginning of
3		the current hash stage.
1	3.	The apparatus of claim 1, wherein:
2		the first predetermined event includes receipt of a request for a pseudo-random
3		number.

- 1 4. The apparatus of claim 1, wherein:
- the second predetermined event includes a part of the subsequent hash stage.
- 1 5. The apparatus of claim 1, wherein:
- the second predetermined event includes a beginning of the subsequent hash
- 3 stage.
- 1 6. The apparatus of claim 1, wherein:
- 2 The numerical sequencer includes a counter.
- 1 7. The apparatus of claim 1, wherein:
- the numerical sequencer includes a linear feedback shift register.
- 1 8. The apparatus of claim 1, wherein:
- said at least a portion of the current one of the sequence of numbers includes
- 3 predetermined bits of the current one of the sequence of numbers.
- 1 9. The apparatus of claim 1, wherein:
- 2 said at least a portion of the output value includes predetermined bits of the
- 3 output value.
- 1 10. A system, comprising:
- a processor;
- a memory coupled to the processor; and

4		a pseudo-random number generator coupled to the processor and including:
5		a hash circuit to receive first and second input values for a current hash
6		stage and to generate an output value from the current hash stage
7		based on the first and second input values;
8		a numerical sequencer coupled to the hash circuit to generate a sequence
9		of numbers during the current hash stage and to provide at least a
10		portion of a current one of the sequence of numbers as the first
11		input value for a subsequent hash stage;
12		a feedback circuit coupled to the hash circuit to provide at least a portion
13		of the output value as the second input value for the subsequent
14		hash stage; and
15		a control circuit coupled to the numerical sequencer to stop generating
16		the sequence of numbers upon an occurrence of a first
17		predetermined event and to resume generating the sequence of
18		numbers upon an occurrence of a second predetermined event.
1	11.	The system of claim 10, wherein:
2		the hash circuit is to receive the first and second input values at a beginning of
3		the current hash stage.
1	12.	The system of claim 10, wherein:
2		the first predetermined event includes receipt of a request for a pseudo-random
3		number.

- 1 13. The system of claim 10, wherein:
- the second predetermined event includes a part of the subsequent hash stage.
- 1 14. The system of claim 10, wherein:
- the second predetermined event includes a beginning of the subsequent hash
- 3 stage.
- 1 15. The system of claim 10, wherein:
- 2 The numerical sequencer includes a counter.
- 1 16. The system of claim 10, wherein:
- the numerical sequencer includes a linear feedback shift register.
- 1 17. The system of claim 10, wherein:
- said at least a portion of the current one of the sequence of numbers includes
- predetermined bits of the current one of the sequence of numbers.
- 1 18. The system of claim 10, wherein:
- said at least a portion of the output value includes predetermined bits of the
- 3 output value.
- 1 19. A method, comprising:
- 2 generating a series of values during each of a previous hash stage, a current
- hash stage, and a subsequent hash stage;
- 4 receiving one of the values as a first hash input;

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5		receiving a hash output from the previous hash stage as a second hash input;	
6		hashing the first and second hash inputs during a current hash stage to produce	
7		current hash output;	
8		stopping the generating when a first predetermined event occurs and restarting	
9		the generating when a second predetermined event occurs, if the first	
10		predetermined event occurs during the current hash stage; and	
11		continuing the generating during the current hash stage, if the first	
12		predetermined event does not occur during the current hash stage.	
1	20.	The method of claim 19, wherein:	
2		the first predetermined event includes receiving a request for a pseudo-random	
3		number.	
1	21.	The method of claim 19, wherein:	
2		the second predetermined event includes a beginning of the subsequent hash	
3		stage.	
1	22.	A machine-readable medium having stored thereon instructions, which when	
2	executed by at least one processor cause said at least one processor to perform		
3	operations comprising:		
4		generating a series of values during each of a previous hash stage, a current	
5		hash stage, and a subsequent hash stage;	
6		receiving one of the values as a first hash input;	

receiving a hash output from the previous hash stage as a second hash input;

8 -		hashing the first and second hash inputs during a current hash stage to produce a
9		current hash output;
10		stopping the generating when the first predetermined event occurs and restarting
11		the generating when a second predetermined event occurs, if a first
12		predetermined event occurs during the current hash stage; and
13		continuing the generating if the first predetermined event does not occur during
14		the current hash stage.
1	23.	The medium of claim 22, wherein:

- the first predetermined event includes a request for a pseudo-random number.
- 1 24. The medium of claim 22, wherein:
- the second predetermined event includes a beginning of a subsequent hash
- 3 stage.